

O P E R A T I O N
M A Y 1 8 2001

Form PTO 1449 U.S. Department of Commerce Patent and Trademark Office		ATTY DOCKET NO: P-LJ 4752	SERIAL NO. 109/864,921
		APPLICANT: Reed et al.	TECH CENTER 1600 REC'D 9 2001
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		FILING DATE: May 23, 2001	GROUP: Unassigned

U. S. PATENT DOCUMENTS

EXAM. INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILI NG DATE
✓	5,223,409	06/29/93	Ladner et al.	435	69.7	03/0 1/91

FOREIGN PATENT DOCUMENTS

EXAM. INITIALS	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRAN SLAT ION (YES /NO)

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

✓	Ahmad et al., "CRADD, a novel human apoptotic adaptor molecule for caspase-2, and FasL/tumor necrosis factor receptor-interacting protein RIP," <u>Cancer Res.</u> 57:615-619 (1997).
✓	Altschul et al., "Gapped Blast and PSI-Blast: a new generation of protein database search programs," <u>Nucleic Acids Res.</u> , 25:3389-3402 (1997).

EXAMINER	DATE CONSIDERED
✓	1/21/04

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Form PTO 1449 US Department of Commerce Patent and Trademark Office		ATTY DOCKET NO: P-LJ 4752	SERIAL NO. 09/864,928
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<input checked="" type="checkbox"/>	Bertin et al., "Human CARD4 Protein is a Novel CED-4/Apaf-1 Cell Death Family Member that Activates NF- κ B*,," <u>J. Biol. Chem.</u> 274:12955-12958 (1999)..
<input type="checkbox"/>	DiDonato et al., "A cytokine-responsive I κ B kinase that activates the transcription factor NF- κ B," <u>Nature</u> 388:548-554 (1997).
<input type="checkbox"/>	Ellerby et al., "Anti-cancer activity of targeted pro-apoptotic peptides," <u>Nature Med.</u> 5:1032-1038 (1999).
<input type="checkbox"/>	Fletcher et al., "A synthetic inhibitor of interleukin-1 beta converting enzyme prevents endotoxin-induced interleukin-1 beta production in vitro and in vivo," <u>J. Interferon Cytokine Res.</u> , 15:243-248 (1995).
<input type="checkbox"/>	Gregoriadis, Liposome Technology, Vols. I to III, 2nd ed., CRC Press, Boca Raton FL (1993). (Table of contents only)
<input type="checkbox"/>	Hofmann et al., "The CARD domain: a new apoptotic signalling [sic] motif," <u>Trends Biochem. Sci.</u> 22:155-156 (1997).
<input type="checkbox"/>	Holinger et al., "Bak BH3 Peptides Antagonize Bcl-x _L Function and Induce Apoptosis through Cytochrome c-independent Activation of Caspases," <u>J. Biol. Chem.</u> 274:13298-13304 (1999).
<input type="checkbox"/>	Inohara et al., "Nod1, an Apaf-1-like Activator of Caspase-9 and Nuclear Factor- κ B," <u>J. Biol. Chem.</u> 274:14560-14567 (1999).
<input checked="" type="checkbox"/>	Li et al., "Cytochrome c and dATP-Dependent Formation of Apaf-1/Caspase-9 Complex Initiates an Apoptotic Protease Cascade," <u>Cell</u> 91:479-489 (1997).
<input checked="" type="checkbox"/>	Neufeld and Rubin, "The Drosophila peanut Gene Is Required for Cytokinesis and Encodes a Protein Similar to Yeast Putative Bud Neck Filament Proteins," <u>Cell</u> 77:371-379 (1994).

EXAMINER	<input checked="" type="checkbox"/>	DATE CONSIDERED
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Form PTO 1449 US Department of Commerce Patent and Trademark Office	ATTY DOCKET NO: P-LJ 4752	SERIAL NO. 09/864,421
	APPLICANT: Reed et al.	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	FILING DATE: May 23, 2001	GROUP: Unassigned

<i>N</i>	Ogura et al., "Nod2, a Nod1/Apaf-1 family member that is restricted to monocytes and activates NF- κ B", <u>J. of Biol. Chem.</u> 276 (7):4812-4818 (2001).
	Rano et al., "A combinatorial approach for determining protease specificities: application to interleukin-1 beta converting enzyme (ICE)," <u>Chem. Biol.</u> , 4:149-155 (1997).
	Rodriguez et al., "Dark is a <i>Drosophila</i> homologue of Apaf-1/CED-4 and functions in an evolutionarily conserved death pathway," <u>Nature Cell Biol.</u> 1:272-279 (1999).
	Rothe et al., "The TNFR2-TRAF Signaling Complex Contains Two Novel Proteins Related to Baculoviral Inhibitor of Apoptosis Proteins," <u>Cell</u> 83:1243-1252 (1995).
	Rotonda et al., "The three-dimensional structure of apopain/CPP32, a key mediator of apoptosis," <u>Nature Struc. Biol.</u> 3:619-625 (1996).
	Saleh et al., "Cytochrome c and dATP-mediated Oligomerization of Apaf-1 Is a Prerequisite for Procaspsase-9 Activation," <u>J. Biol. Chem.</u> 274:17941-17945 (1999).
	Schwarze et al., "In Vivo Protein Transduction: Delivery of a Biologically Active Protein into the Mouse," <u>Science</u> 285:1569-1572 (1999).
	Tatusova and Madden, "Blast 2 Sequences, a new tool for comparing protein and nucleotide sequences," <u>FEMS Microbiol Lett.</u> 174:247-250 (1999).
<i>V</i>	Thome et al., "Identification of CARDIAK, a RIP-like kinase that associates with caspase-1," <u>Curr. Biol.</u> 8:885-888 (1998).

EXAMINER	DATE CONSIDERED
<i>N</i>	1/21/04

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	APPLICANT: Reed et al.	
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<i>N</i>	Thornberry, Nancy A., "Caspases: key mediators of apoptosis," <u>Chemistry and Biology</u> 5:R97-R103 (1998).
	Thornberry et al., "A novel heterodimeric cysteine protease is required for interleukin-1 beta processing in monocytes," <u>Nature</u> , 356:768-774 (1992).
	Thornberry and Molineaux, "Interleukin-1 beta converting enzyme: a novel cysteine protease required for IL-1 beta production and implicated in programmed cell death," <u>Protein Sci.</u> , 4:3-12 (1995).
	Tschopp et al., "Inhibition of Fas death signals by FLIPs," <u>Curr. Op. Immunol.</u> 10:552-558 (1998).
	van der Biezen and Jones, "The NB-ARC domain: a novel signalling [sic] motif shared by plant resistance gene products and regulators of cell death in animals," <u>Curr. Biol.</u> 8:R226-R227 (1998).
	Vocero-Akbani et al., "Killing HIV-infected cells by transduction with an HIV protease-activated caspase-3 protein," <u>Nature Med.</u> 5:29-33 (1999).
	Willis et al., "Bcl10 is Involved in t(1;14)(p22;q32) of MALT B Cell Lymphoma and Mutated in Multiple Tumor Types," <u>Cell</u> 96:35-45 (1999)
<i>✓</i>	Yuan and Horvitz, "The <i>Caenorhabditis elegans</i> cell death gene ced-4 encodes a novel protein and is expressed during the period of extensive programmed cell death," <u>Development</u> 116:309-320 (1992).
<i>✓</i>	Zou et al., "Apaf-1, a Human Protein Homologous to C. elegans CED-4, Participates in Cytochrome c-Dependent Activation of Caspase-3," <u>Cell</u> 90:405-413 (1997).

EXAMINER	<i>N</i>	DATE CONSIDERED	<i>1/21/09</i>
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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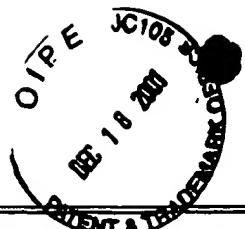
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Form PTO 1449 <i>Information Disclosure Statement by Applicant</i>	ATTY DOCKET NO: P-LJ 4752	SERIAL NO: 09/868 921
	APPLICANT: Reed et al.	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	FILING DATE: May 23, 2001	GROUP: Unassigned

<i>✓</i>	Zou et al., "An APAF-1-Cytochrome c Multimeric Complex is a Functional Apoptosome that Activates Procaspsase-9," <u>J. Biol. Chem.</u> 274:11549-11556 (1999)
	GenBank: AC008810
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	GenBank: NT-002476
	GenBank: AC010968
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FOREIGN PATENT DOCUMENTS

EXAM. INITIALS	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION (YES/NO)
✓	WO 99/40102	8/12/99	PCT			
✓	WO 01/18042	3/15/01	PCT			
✓	WO 01/00826	1/4/01	PCT			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

✓	Hofmann and Bucher, "The card domain: a new apoptotic signalling motif," TIBS, 22:155-156 (1997).
✓	Genbank accession no. AC025758
✓	Genbank accession no. AC016492
✓	Genbank accession no. AC026732

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✓		WO 96/12016	04/25/96	PCT			
✓		WO 99/40102	08/12/99	PCT			
✓		WO 99/40102 (corrected)	08/12/99	PCT			
✓		WO 01/00826	01/04/01	PCT			
✓		WO 01/18042	03/15/01	PCT			
✓		WO 01/30971	05/03/01	PCT			
✓		WO 01/66690	09/13/01	PCT			
✓		WO 01/72822	10/04/01	PCT			

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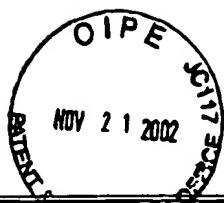
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RECEIVED TECH CENTER 1600/2900 NOV 21 2002	Bertin et al., "Human CARD4 Protein Is a Novel CED-4/Apaf-1 Cell Death Family Member That Activates NF- κ B," <u>Journal of Biological Chemistry</u> 274(19):12955-12958 (1999).
	Damiano et al., "CLAN, a Novel Human CED-4-like Gene," <u>Genomics</u> 75:77-83 (2001).
	Geddes et al., "Human CARD12 Is a Novel CED4/Apaf-1 Family Member That Induces Apoptosis," <u>Biochemical and Biophysical Research Communications</u> 284:77-82 (2001).
	Hofmann et al., "The CARD domain: a new apoptotic signalling motif," <u>TIBS</u> 22(5):155-156 (1997).
	Kobe and Deisenhofer, "Proteins with leucine-rich repeats," <u>Current Opinion in Structural Biology</u> , 3(5):409-416 (1995).
	Koonin and Aravind, "The NACHT family - a new group of predicted NTPases implicated in apoptosis and MHC transcription activation," <u>TIBS</u> 25(5):223-224 (2000).
	Ogura et al., "Nod2, a Nod1/Apaf-1 Family Member That Is Restricted to Monocytes and Activates NF- κ B," <u>Journal of Biological Chemistry</u> 276(7):4812-4818 (2001).
	Poyet et al., "Identification of Ipaf, a Human Caspase-1-activating Protein Related to Apaf-1," <u>Journal of Biological Chemistry</u> 276:28309-28313 (2001).
N	Rychlewski et al., "Comparison of sequence profiles. Strategies for structural predictions using sequence information," <u>Protein Science</u> 9:232-241 (2000).

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RECEIVED MAY 22 2002 TECH CENTER 1600/2600	✓	Stapleton et al., "The crystal structure of an Eph receptor SAM domain reveals a mechanism for modular dimerization," <u>Nature Structural Biology</u> 6(1):44-49. (1999).
	✓	Database Accession No. AC007728, DATABASE EMBL, "Homo sapiens chromosome 16 clone RP11-327f22, complete sequence" (June 7, 1999).
	✓	Database Accession No. AC010968, DATABASE EMBL, "Homo sapiens chromosome 2 clone RP11-9302, WORKING DRAFT SEQUENCE, 11 unordered pieces" (September 29, 1999).
	✓	Database Accession No. AC016492, DATABASE EMBL, "Homo sapiens chromosome 4 clone RP11-94C22 map 4, LOW-PASS SEQUENCE SAMPLING" (December 10, 1999).
	✓	Database Accession No. AC025758, DATABASE EMBL, "Homo sapiens chromosome 5 clone CTD-2235A13, WORKING DRAFT SEQUENCE, 16 ordered pieces" (March 16, 2000).
	✓	Database Accession No. AC026732, DATABASE EMBL, "Homo sapiens chromosome 5 clone CTD-2303L1, complete sequence" (March 24, 2000).
	✓	Database Accession No. AQ534686, DATABASE EMBL, "Homo sapiens genomic clone RPCI-11-384F21, genomic survey sequence," (May 18, 1999).

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